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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/930,906 08/16/2001		08/16/2001	Mitchell C. Tarczynski	35718/236392 (5718-113)	1627
826	7590	10/01/2003			
ALSTON &	& BIRD L	LP	EXAMINER		
BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000				KALLIS, RUSSELL	
CHARLOTTE, NC 28280-4000				ART UNIT	PAPER NUMBER
				1638	7
				DATE MAILED: 10/01/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
055	09/930,906	TARCZYNSKI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Russell Kallis	1638					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR to after STX (6) MONTHS from the mailing date of this communication or if the period for reply specified above is less than thirty (30) days, a record if NO period for reply is specified above, the maximum statutory perions a Failure to reply within the set or extended period for reply will, by state. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1 704(b) Status	I. 1 136(a) In no event, however, may a seply within the statutory minimum of thir id will apply and will expire SIX (6) MON tite, cause the application to become Al	eply be timely filed by (30) days will be considered timely tHS from the mailing date of this communication ANDONED (35 U.S.C. & 133)					
1)⊠ Responsive to communication(s) filed on 16	S August 2001						
	This action is non-final.						
3) Since this application is in condition for allow		itoro procesition as to the marks is					
closed in accordance with the practice unde	er <i>Ex par</i> te <i>Quayl</i> e, 1935 C.	D. 11, 453 O.G. 213.					
4) Claim(s) $1-26$ is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) $\underline{1-26}$ are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examin	er.						
10) The drawing(s) filed on is/are: a) acce							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) \square The proposed drawing correction filed on is: a) \square approved b) \square disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the E	xaminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) All b) Some * c) None of:							
 Certified copies of the priority document 	nts have been received.						
2. Certified copies of the priority documen	nts have been received in A	oplication No					
 3. Copies of the certified copies of the price application from the International B * See the attached detailed Office action for a lis 	ureau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domes							
a) The translation of the foreign language pr							
15) Acknowledgment is made of a claim for domes							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of h	iummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-2 and 4-20, drawn to a plant transformed with SEQ ID NO: 1, 3 or 5, classified in class 800, subclass 278 for example.
- II. Claim 3, drawn to an isolated protein, classified in class 536, subclass 23.1 for example.
- III. Claims 16 20, drawn to a method for increasing oil or other desired product in a plant wherein the plant is transformed with cDNA encoding NADP dependent malic enzyme, classified in class 800, subclass 282 for example.
- IV. Claims 21-26, drawn to a plant genetically manipulated for increased synthesis of oil or some other desired product comprising in its genome a cDNA encoding NADP dependent malic enzyme and a cDNA encoding pyruvate kinase, classified in class 800, subclass 298 for example.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as eapable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant ease the different inventions are a plant transformed with a pyruvate kinase eDNA of Group I, a plant transformed with a NADP dependent malic enzyme eDNA of Group III, and a plant transformed with cDNA encoding NADP dependent malic enzyme and pyruvate kinase IV each having different transgenes encoding enzymes or combinations thereof resulting in different phenotypes.

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Inventions I, III, IV and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are the transformed plants of Groups I, III and IV and the isolated polypeptide of

Claims 16-20 link(s) inventions I and III. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 16-20. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

The claims of Group 1 and 11 are directed to 3 independent and distinct nucleic acid or 3 independent and distinct amino acid sequences. Upon election of Group I Applicant is required to elect a single nucleic acid sequence of SEQ ID NO:1, SEQ ID NO:3, or SEQ ID NO:5. Upon election of Group II Applicant is required to elect a single amino acid sequence of SEQ ID NO:2, SEQ ID NO:4, or SEQ ID NO:6. This requirement is not to be construed as a requirement for an

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election of species, since each of the nucleic acid sequences or amino acid sequences recited in alternative form is not a member of a single structurally and functionally related genus, but rather constitutes an independent and patentably distinct invention. Separate searches and considerations would be required for examination of each of the nucleic acid sequences.

Because the inventions are distinct for the reasons given above and have required a separate status in the art as shown by their different classifications, recognized divergent subject matter, and because the search required for one of the groups is not required for another restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (703) 305-5417. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (703) 306-3218. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0198.

Russell Kallis Ph.D. September 27, 2003

> PHUONG T. BUI PRIMARY EXAMINER